

What Is Claimed Is:

1. A monopole coaxial cable, comprising
  - a core (1),
  - a dielectric (2) enclosing the core (1),
  - an electrically conductive shield (3) enclosing the dielectric (2),
  - a jacket (4) enclosing the shield (3),
  - a plug connector, including a contact sleeve (5), which in one segment (5.1) contacts the shield (3) in an electrically conductive manner,
    - the contact sleeve (5) being situated in such a way that in the segment (5.1) on the one hand it encloses the dielectric (2) and on the other hand is enclosed by the shield (3), and
    - the contact sleeve (5) being mechanically connected to the jacket (4) of the coaxial cable via an extrusion coat (6) of insulating material such that the extrusion coat (6) acts as a strain relief of the contact between the segment (5.1) and the shield (3).
2. The coaxial cable as recited in Claim 1, the extrusion coat (6) adhering both to the contact sleeve (5) and to the jacket (4).
3. The coaxial cable as recited in Claim 1 or 2, wherein the contact sleeve (5) is formed in one piece.
4. The coaxial cable as recited in one of the preceding claims, wherein the wall thickness of the contact sleeve (5) decreases toward one end.
5. The coaxial cable as recited in one of the preceding claims, wherein the segment (5.1) of the contact sleeve

(5), which on the one hand encloses the dielectric (2) and on the other hand is enclosed by the shield (3), has roughened areas on the outer surface (5.3).

6. The coaxial cable as recited in one of the preceding claims, wherein the outer contour of the extrusion coat (6) has in places offset in the axially parallel direction (X) different distances (r; R) with respect to the core (1) for a form-locking transmission of forces having an axially parallel directional component onto a housing of a secondary locking mechanism.
7. The coaxial cable as recited in one of the preceding claims, wherein the shield (3) includes a metal braid (3.2) and an electrically conductive foil (3.1).
8. A method for manufacturing a monopole coaxial cable, comprising a dielectric (2), a shield (3), and a jacket (4) surrounding the shield (3) having a plug connector situated at one end of the coaxial cable, having the following method steps
  - insertion of a contact sleeve (5) in the axially parallel direction (X) between the shield (3) and the dielectric (4) such that the contact sleeve (5) in one segment (5.1) on the one hand encloses the dielectric (2) and on the other hand is enclosed by the shield (3) and is in electrical contact with the shield (3),
  - extrusion-coating of the jacket (4) and one part of the contact sleeve (5) with insulating material such that the contact sleeve (5) is fixed relative to the shield (3) in the sense of a strain relief.
9. The method for manufacturing a coaxial cable as recited in Claim 8, wherein prior to the insertion of the contact

sleeve (5), the shield (3) and the jacket (4) are cut to length in such a way that the dielectric (2) protrudes with respect to the shield (3) and the jacket (4).

10. The method for manufacturing a coaxial cable as recited in Claim 8 or 9, wherein the contact sleeve (5) is inserted between the dielectric (2) and an electrically conductive foil (3.1), which is part of the shield (3).
11. The method for manufacturing a coaxial cable as recited in Claim 8, 9 or 10, wherein the extrusion-coating of the plug connector is performed with the aid of an injection molding process.